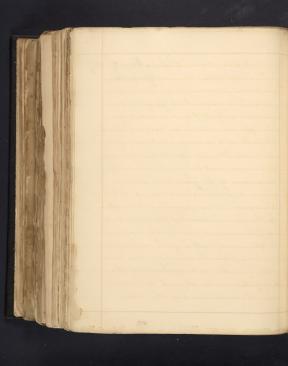
Pafre March 9 1 1827 W. L. H. Inaugural Difsertation Cholerce Infantum Allen Knight Pennsylvanie

Copus . hard 9 1827 and the



The rules of this University requiring candidates for the olegne of Loctor of Medicine to prepare an espay on some medical subject, I have selected for that purpose the disease called bholua Infantum, or summer epictemic of children. The extensive prevalence of this disease and the great mortality occasioned by it, give it a strong claim to the consideration of the physician. As an epidemie it is peculiar to the warm season of the year, and its prevalence is principally confined to the warm and impure atmosphere of large cities. On this City, it is suice, that since the introduction of the Schuylkiel water through the streets, and the improvement of the police

Saipringers. To an existence of 25 printer

regulations, it is much left previously hast 'been yet it appears from the bells of mentacity, that he number of deaths from this disease, average more than two hundred per annum, a degrie of mintacity exceeding that from any other disease in proportion to the free od of its duration.

This opidemic makes its appearance in this lity in Jenn, is at its height in July, continuing to a lefs eftent through August were in nearly estimately the middle of deptember, making the fraction of its decention, little more than one fourth of the year.

It is always aggravated by an incum of temperature, also by sender changes in the atmosphere from heart to every of mintalety registering theat from any the bearing of its duration, little give and from degrees to humidity. Children from early injuncy until they are there, or four years ald, one liable to be effected by this disease; but there at the period of deutition, or from the fifth to the twentieth month are much furticularly subject to its attach.

The summer opidemic of children appears in several different forms, and is attended with a divisity of symptoms. They may however all be received to some of the following hours.

1th Bilines Dieurhoua
2th Acute Cholesa
3th Viscoul Inflammation
4th Chronic Bowel Complaint
lach stage is marked by its

3th Googland Inflormation

peculia symptoms.

1th Bilious. Dianhora.

This is the mildest form of the discourse, and consists in an increase see frequency of sloods, the discharges being generally of a believes chemacter on many cases this views and prefer so off in a few days without much general indeposition.

On other cases it is attended with felicia symptoms. The tonger is function, the tonger is function the appearance with important the streets become more vitianal and love their believes appearance. Othe disease there begins to aforeme the character of some of the other forms, the sweet commen of which is, the Scatte Cholera.

It is this form of the disease that gives the title to the epidemic. It consists in a biolent bouniting and pury ing. On some cases it comes on sudden by without any previous indisposition; and en others, it is preceded by the dianhoral form of the disease. When will or other aliment hers been received into the stomach, it is first rejectue in a some and coaquelatiel stale; some bilious ment tu is vecesionally thrown off but for the most part nothing but mucus or sline, and the vitiative secretwo from the stomach are therown up. Whe stools also present an altered appenence. Partially digested food Alime or mucus is dischurged: some times they are green, or yellow, and

in willy dear holes brindered instich ortine wified reporter in an ormal and courselated while; come bline par Mine of the Medicalities out , Making would

very fetiel. Mucus so very frequently discharged mixed with blood; and at other times a coloules fluid is evacuated The quantity is also barious; in some the secretion from the birvels is copious, and in other small in quantity. During the period of somiting and purging, there is great prostrution of strength, the pulse is small and weak, the exterior ities one coler, while the pulsations of the arteries of the head the temporeel end conoled) one full and strong the head, breast and efigustium are warmer them wateral. When the someting is violent, the eyes become suffused, elelisium, stee from or connectsions, occasionally

Shirt is mounted great report time of chief the M. Il low the sometime is sintent the eges become sufficient, stationing the own. Oh victime of the disease of he absumed the abstracted muscles, and lower stationists.

This form of the disease runs its course in a short time.

On some cases it terminates in comvulsions and weath, in twenty four hours. In others it is successed by a general febrila state of the system, that continues a few ways becoming gradually milder and their entirely subsiding. But it of requestly termirates in the third stage of the disease, Visited Influenceation.

discuse, Tisceral Virglanumention.
This stage of the discuse is allended with a swelling of the abeloneus, extreme Sorenes of the epigusticum, restlepasts, violent crying, und a

This edward then this east notes als round he others out at descenter to in that contilling in four days becoming This stown of the disease is almost

general expression of extreme pain. The pulse is active, the skin hot, and the longue dry, with constant thirst The discharges from the bowels are Mucus or slive, sometimes bloody and frothy, at other times a dark green coloured matter is discharged. Severe griping pains, wakefuluefs, delivium, and a countenance expression of the greatest auguish is often exhibited by the little sufferer. This state of acute inflammation does not continue long. How if resolution is not effected by the remodies employees, it soon terminates in structural duangement of the vissue, or is succeeded by chronic inflammation of the stomuch and bowels , which constitutes the fourth stage, of the disease. or plices fractions bloods who Sound matter is discharged. a comment by charges tallamention triblewavel and bourses which stitutes the Special Western the distribution

Chronic Bowel Complaint In this stage of the disease there are frequent stools, sometimes as of ten as every hour in the clay; and the disease resisting every effort that can be made is often protincted to six, or even eight weeks duration. The stools exhibit all the busious appearances that have been mention ed in the other forms of the diseuse. In execution to which, there is in some cases discharges that resemble the feter of rotten eggs; in other cuses a dock pitchey looking matter is evacuated.

The externities are generally evelor, the tongue, is dry and content, or dry smooth and polished. Is the discuse progrepses the general heren with house in the wind, and scale shop insulant bearing allow the

strength becomes more prostruted and extreme emaciation teches pluce. The eyes are dull and suntien, the nose shoup, the lips shriveled, the Other of the fere head lause, and the Hippocratic countenance shongly marked. The skin is either evol, ely and hush, or bedewed with a visuid moisture, and the fleshy parts of the body are loose and shrineled. At this advanced state of the disease, the gums are covered with sorces, the mouth is affective with cephillien. executions about the anus, and are adematous swelling of the extremetire. These symptoms are generally followed by a fatal termination. which arises either from effection on the brain, or from Structural duange.

10. this determined state tof the discord Theor Burnholman had genterally to bearing in Service of Buckenice Sugar

Causes

The principal agent in the production of this epiclemic is atmospherical heat. What this is the couse is dimonstrated by the fact, that the discuse regularly makes its apprenunce upon the occur rence of very kegle temperature, and always subsides when the atmosphere becomes evol. Their appears to be a differ ence of opinion unougst medical min en respect to the moune in which heat acts in the production of this disease. A muniber of respectable authorities consider it as acting indirectly by the agency of miamunter, and that cholenis a modification of believes fun or the "felies introverse" of Sychukeun

while others emister it as a ling durity by its immediate stimulating effect on the system.

The following circumstances appear to favour the state, and stand oppose to the former of these opinions.

1st The discuss makes its opposeure may in the season, before these discuss that are achieved engue to be caused, by mine mate.

2nd Miasmatic dimens an quently most prevalent in the eventry, much life of reguest in the city while directly the reverse is the case with cholern.

Ohn are sweet seemetary or adventitions cause that time to excite the

1st Deutition is the most important. The tomeny to febrila excitement that

1

exists during this privat of injuny runders the system such lines, to discuss. There is the children of the children in the city that an cutting teeth during the summer worths, are subject to some of the forms of this clique.

2th Fruit. It is a very properties opinion. Hust the summer discuss is caused by the early fruit catter to except, is in an unifer state.

That this sing veresionally exists the discuss into action cannot account of a doubt.

But when we consider that the children most subject to this discuss are there, who from their helpers that have aught to fairly we must attribute but a very

limitive agency to this ence.

82 Papelline Emptions.

One of the first humbird effects of a high temperature of the atmosphere is the production of cultimines implies of the lichen tempines or printly break is very common amongst children upon the ofirst communicate of very warm menture.

I am informed by a physician who has furticularly director his observed that a large furtion of the cases of cholen that have come under his water have been previously affective with this discuss of the skin, which have clisappeared sometime for vious to the occurrence of the bound affection. It would however probably to some correct to consider both there

elities arrend to this vaces.

expections as arising from a common come those to acceive the soign of the total to the frame.

The causes of this spir

demir appear to have all their effects directed to the chylopadic times, the live, stemach were lovered one the fent principally affective.

Who stimulating offert of heat, when swedents in degree, increases the seention of the liver, but when it extends to a higher degree, or continues a long of the liver, and a deficiency a deprocess state of bile are the imagreeous The stomach and bourds are also expected directly by the stimules of the amost and excelling course of the time experient debitity, to to traper the liver and a deficience water regione que exciting ourses of they of a healthy bilious sensitive whene of the process of seigntion and afine station becomes impound.

Treatment

1st Bilions Bennhow.

Whis hing in many cases a disease in which the spontaneous effects of nature to relieve the system wenter be efficient; buy little meetine heature is required. A mile layative of may man, or equal of checked followers but when it is attractive with thirt, and when it is attractive with thirt, and when without in plant appetite, and other without of febrile exists and should be precised. When the discharge of from the bowels indicate

Shoute be homined. When the decherry dean the Soulet o interested either a deficiency or a dependent state of the alimentary descrition a full dose of calonel will be excepted.

when the shin is ear, and hand the warm, but he have combinations of openine with openinations of special as as to special a diaphonis, will buy much aid the care

20 Cholera Infantum

Emeties, from their effects in summing any initating mutter from the stomach, and more particularly their towards to relieve congestion in the partial system, appear to be precisively ampted to this stage of the discerse. Professor bhusman in his becture, speaks favourally of them, and states, that "when their is no recover to ever put influention of the stomach

devoluted to this stage of the discours.

and experiently unpryer. Ohive physicians who have used

mutin in this disease have growthy professed incommenda, as being mileren, and last limble to exist initation in the stowner.

A late write in most positive

tung give acteristic programs to tertain sometic, which he exhibitive in doors of half from to an injust. Not having any experience in this bress purities I am not free present to offer an opinion of its prot printy.

Anti- eneties, Although the exhibition of our write will often surpurees the surprity of any other summer to allay the bounting, yet it of the

int Sounds that many be sufely trungurious destated preference to tenter of hatfredgrains could had level to les happens that from the exhauster state of the patient, or the prefere of inflammation that emeties are in admissible. When this is the case recourse must be here to means out. culation to south the initability of the stomach; for this purpose lime wester and wilk, the alkaline and efferrescing mixtures are recommended, strong coffee, an infersion of benut valueal and external applications of various hinds, famentations cuter plasms of wint or acounties, sinapisous, blisters, the evenu bath and anodyna enjections, are amongst the meuns used to fulfil this indication. When the system is much exhausted active Stimuetants are required, as brandy loddy, or spiced brandy &.

state of the hatched, or the heepens colonidatelle. When this is the our whering to sworter the instribility of water and with the allatine und exerceptions limitered are asconculated of prising hinds, boundations butterdistres, the evenu both land anorner When the explay is much extremoted hund today or spine lowing &.

Purgester When the tomiting has coaseer and the system has reacted sufficiently to admit of purgatives, they become the next important peut of the treatment.

Physicians generally represent to be a greed, their for this purpose calound is the most efficient acticle, the facility with which it may be given to children, and its precedion effects on the biling sys-Tem renders it preferable to any other purgative medicine en this discuse.

Die phereties. After sufficiently waresalion of the bowels by purgative Medicine, small closes of opium, com beined with autimony, or executionen and small doses of culomal house

very selecting effect.

Presented Where the consisting the course have the sustan has unclose sufficiently to account of pain wiers, they become the next withoutent eppin to be again that for this atiete, the failety with which it went the given to Elisteness, were its an recite it perfectle to men to This where the sufficient

Visceral Inflammation On the third form of the diseuse or when biscul enflowmention exists blood letting becomes necessary. General blood- letting by venesections, or local bleeding by cups, or luches, to the epigastium, should be used prompetly: in many cases it becomes necessary to repeat the operation; In determining the propriety of this Measure, the fulse must not be our only quide, the apparent violence of the pain & degree of tendernels winced whom prefour will afform the best

Pengatives on very important in this form of the disease, culoused in dividue doses follower by costs oil or a solution of spoon salts,

when husbaran with whom the but

should be repeated entil a free operation is effected. - Cold applications to the epigastrum and other abelowind regions an very excepted, when there is pretermentance heat, and drynes, of the skin of those peuts, they receive the merbice leurs perature, and lepen inflammation Enemate of cold wester are probably beneficial. Emolient and topice applications are proper, when there is no Marked increase of temperature, for this perfure a bladder containing tepic water applied over the abdorner has a tendency to relay the culanever vegsels and produces svotting effects on the diseuse. The ween or topice buth is culeur

lateral to answer the same enful

purpose. Polisters are amongst the reason of exclusions local influmenation which are often applicable in this form of the disease.

Mucilayinous dientes as a solution of gene undie, or an infusion of flay such an proper. Diaphoretic Medicing may often be administrate with advantage, after bleeding and purging have reduced the fore of the inflammation.

When the influence Mention is subsequent that of debility calls for subsequent by appropriate tonic menicus and multitions diet:

Chronic Bowel Complaint Bu this four of the disease the inducations are 1st to restence

end atthe applicable in this form total of Huberguet up holofin; Heach listery with the degrades of to be bless bland clay lead medicing hours - led word the four Af the

the excepsive and delilitating discharge

I'm To alter and equalize the year eral action of the system.

3rd To support the tone of the sys time. For answering the first indication a great beniety of ustinguls have been used, the preparations of chalk, kino, blackbury and dowbury root, logwood the galls, alum, oficin and sugar of least, each of these respective cuticles has been found useful in this form of the disease. In some ceeses from the protected Mature of the disease, it becomes necessary to use several of them in succession before they have the descred effect. The second indication

and desgrape of hearly secolo of these enfactive seiter les lava lever found In some easy from the fraterition

or changing the action of the system, is an efsential part of the treatment. While the inturnal vefsels remain in a state of congestion, and those of the surprice in a state of collapse or deficient excilement, it will be in vein to extrempt to check the diseese by eistringents. The most efficient meens to fulfil this inelication is calomel in very small closes in the menner recom mended, by Dr. Miller of New york. and more recently by mores of England. The happy result of this functive is in many instances truly aslowishing. The evenu batte and friction, to the skin well be found useful any elieny meens. Moule not the Mitro- Municitie

wire both of devet; he useful in this state of the discuss of Le Chapman in his lectures on chance dysuitery suggests the propried of this remedy, was it would sum equally adopted to the chance bower complaint.

The third indication recomely, supporting the tone of the system requithe named treatment for their purpose, columbo, the preparations of local, and puriously the sulphgricine, and seems, also suitable enticles of soid, and external stimulants time bath, bent jucket & an all adaptice to this purpose.

The property event breatment consist in country ein, free heutilation coler bath, attention to cutting of

ciries butter of client , but not fill in oling for their remoders were it y nouled one princing, and sinis, also suite ble witine to this purpose.

the genes, when the state of electition they require it, to avoid repetting culture most in matter the start, heart whith such much sometimes with whith sugar, arown wort, grown the second of the furth second of start french, or fish, and when the elegentia organs are weak around its should be were.

The amp should be were.

The amp should be were.

The app should be accommentated the bicifaitures of the weather, the fact to be grantered, and flamme work on the absolution.

The grown, when the state of destricion